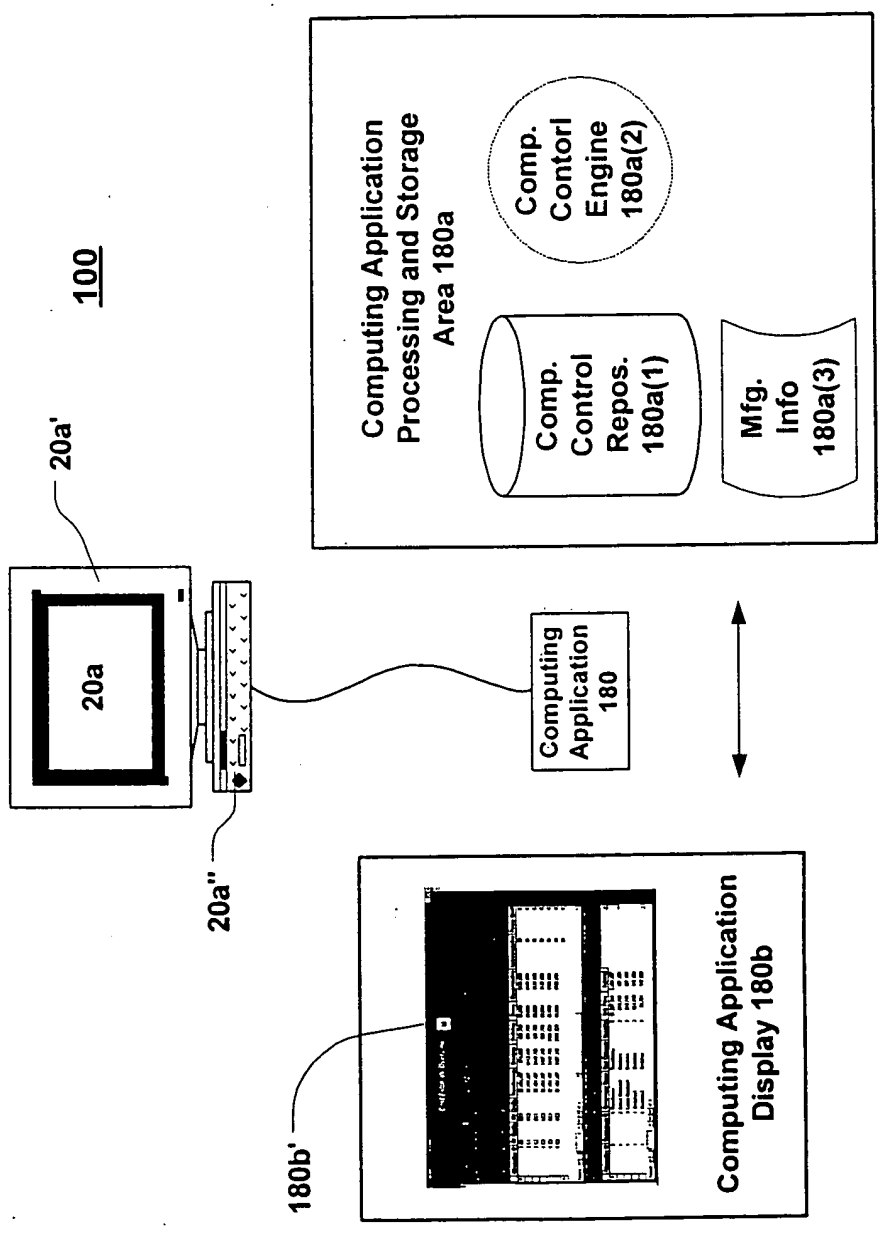
100
20a'
20a
20a''
180b'
Computing Application 180
Computing Application Processing and Storage Area 180a
Comp. Control Repos. 180a(1)
Comp. Control Engine 180a(2)
Mfg. Info 180a(3)
Computing Application Display 180b

Figure 1

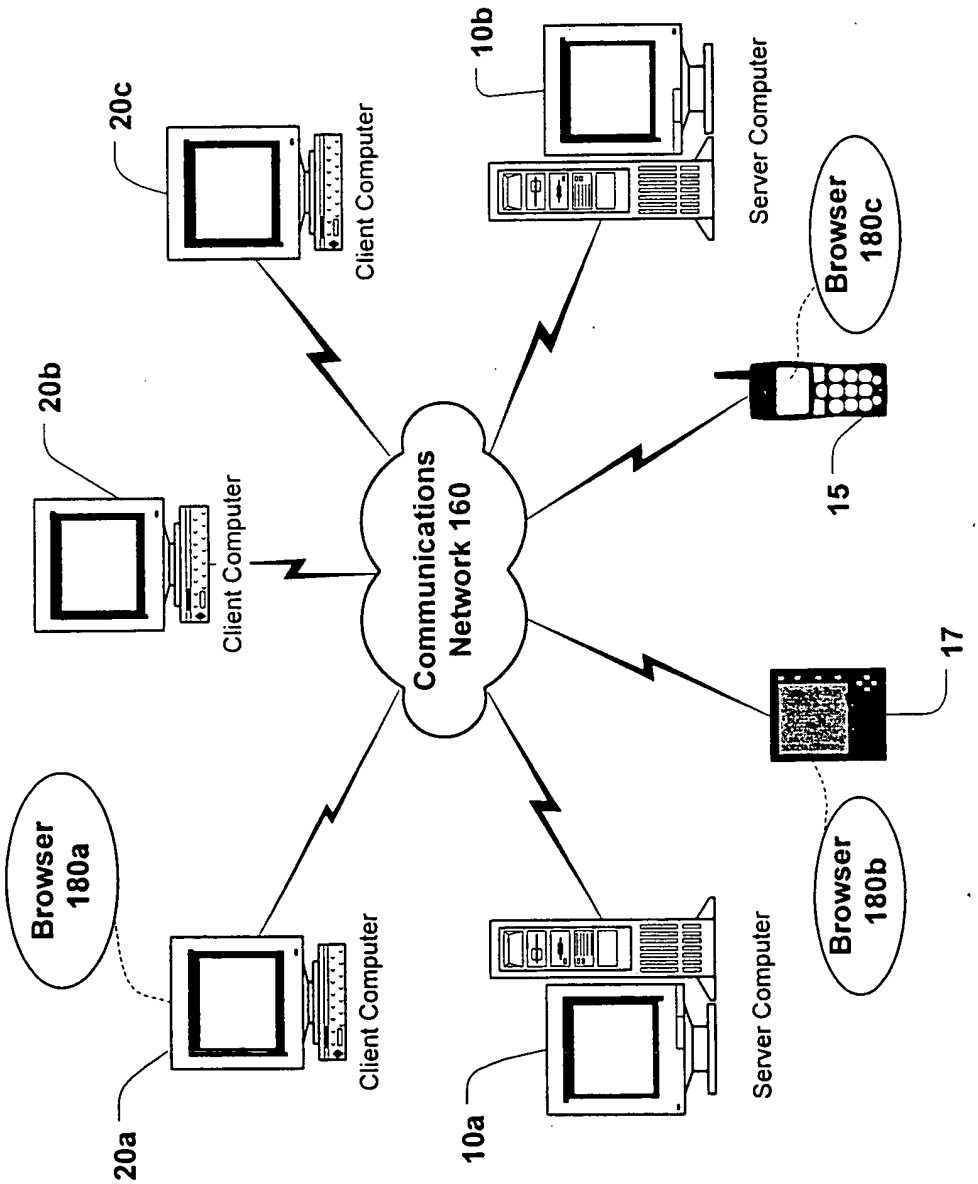
Communications Network 160
Client Computer
Client Computer
Client Computer
Server Computer
Server Computer
Browser 180a
Browser 180b
Browser 180c
20a
20b
20c
10a
10b
15
17

Figure 1a

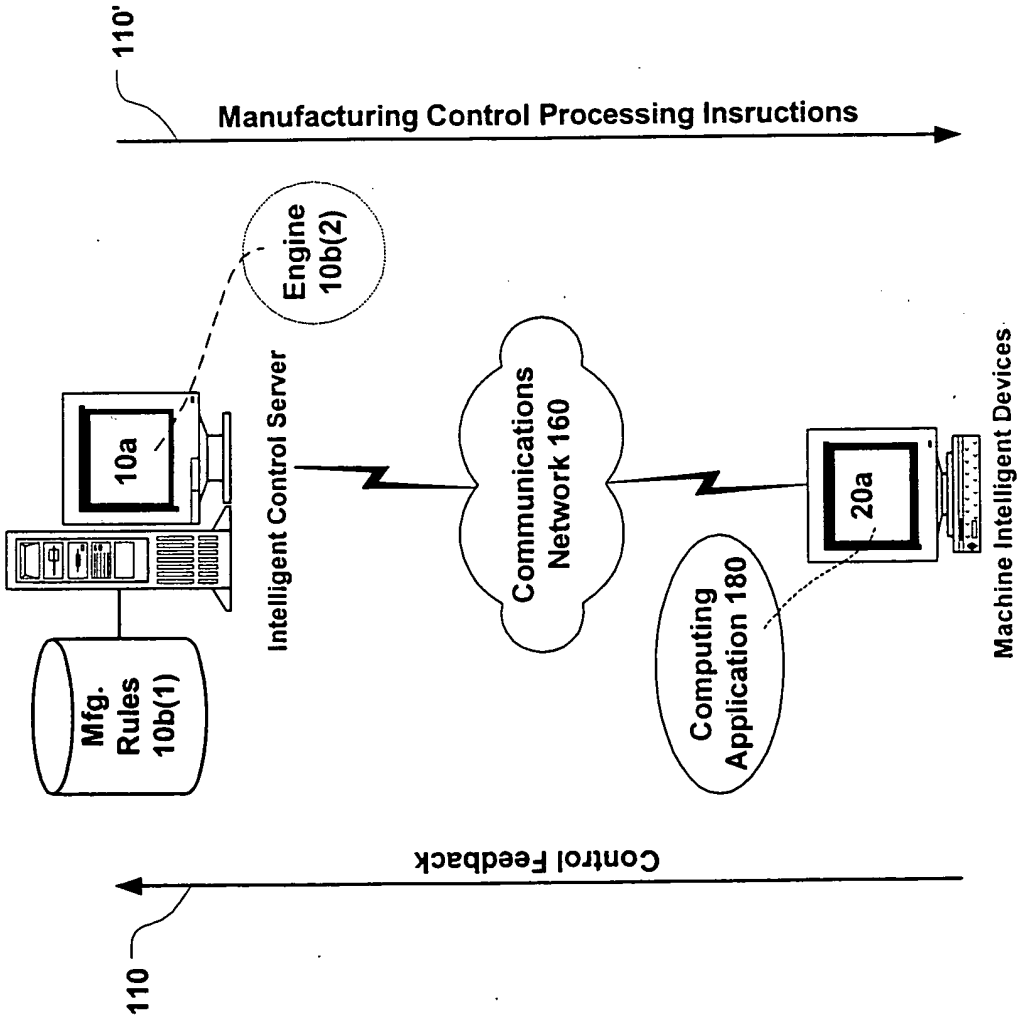
110'
Manufacturing Control Processing Insructions
Engine 10b(2)
10a
Intelligent Control Server
Communications Network 160
20a
Machine Intelligent Devices
Computing Application 180
Mfg. Rules 10b(1)
Control Feedback
110

Figure 1b

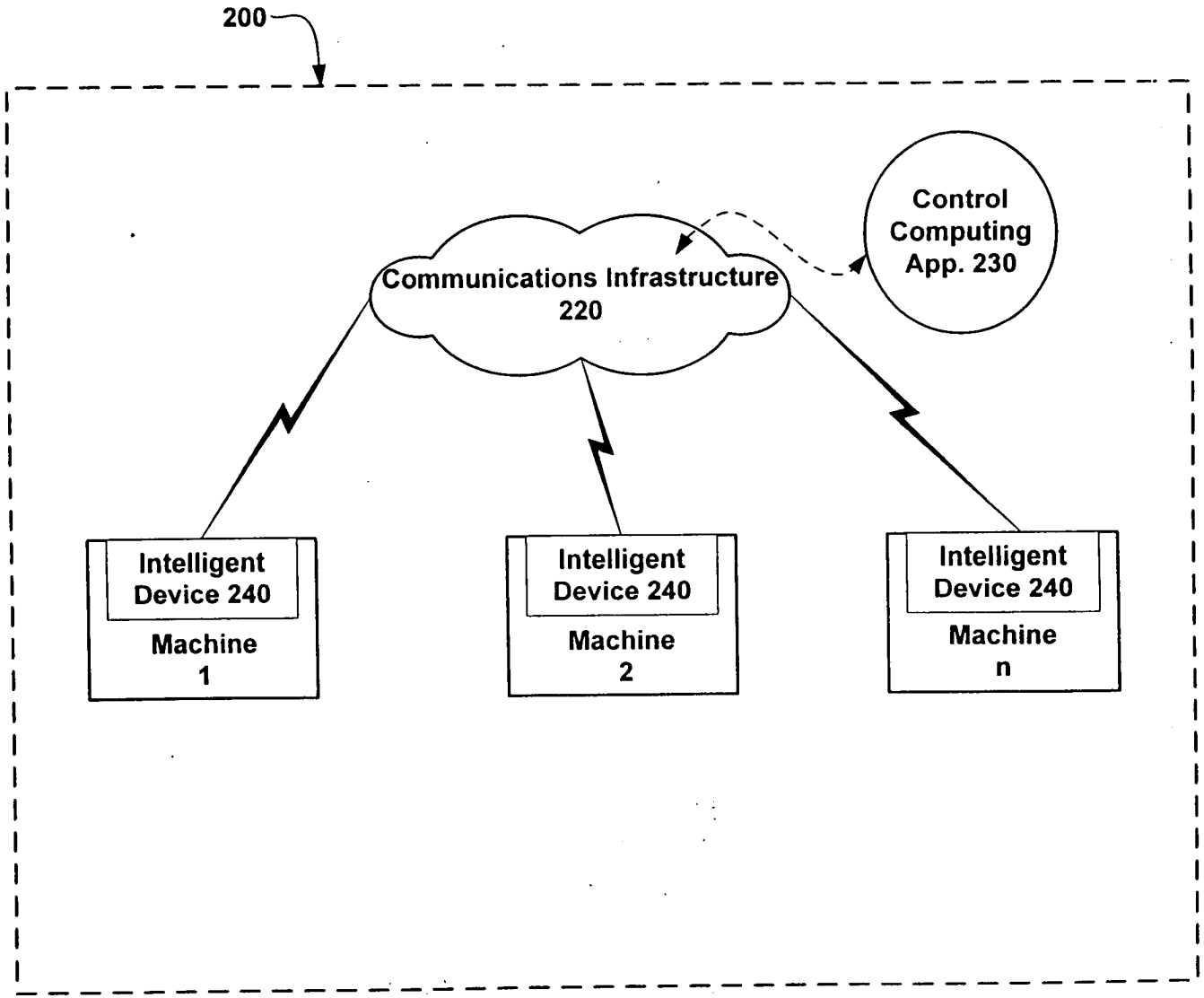
200
Control Computing App. 230
Communications Infrastructure 220
Intelligent Device 240
Machine 1
Intelligent Device 240
Machine 2
Intelligent Device 240
Machine n

Figure 2

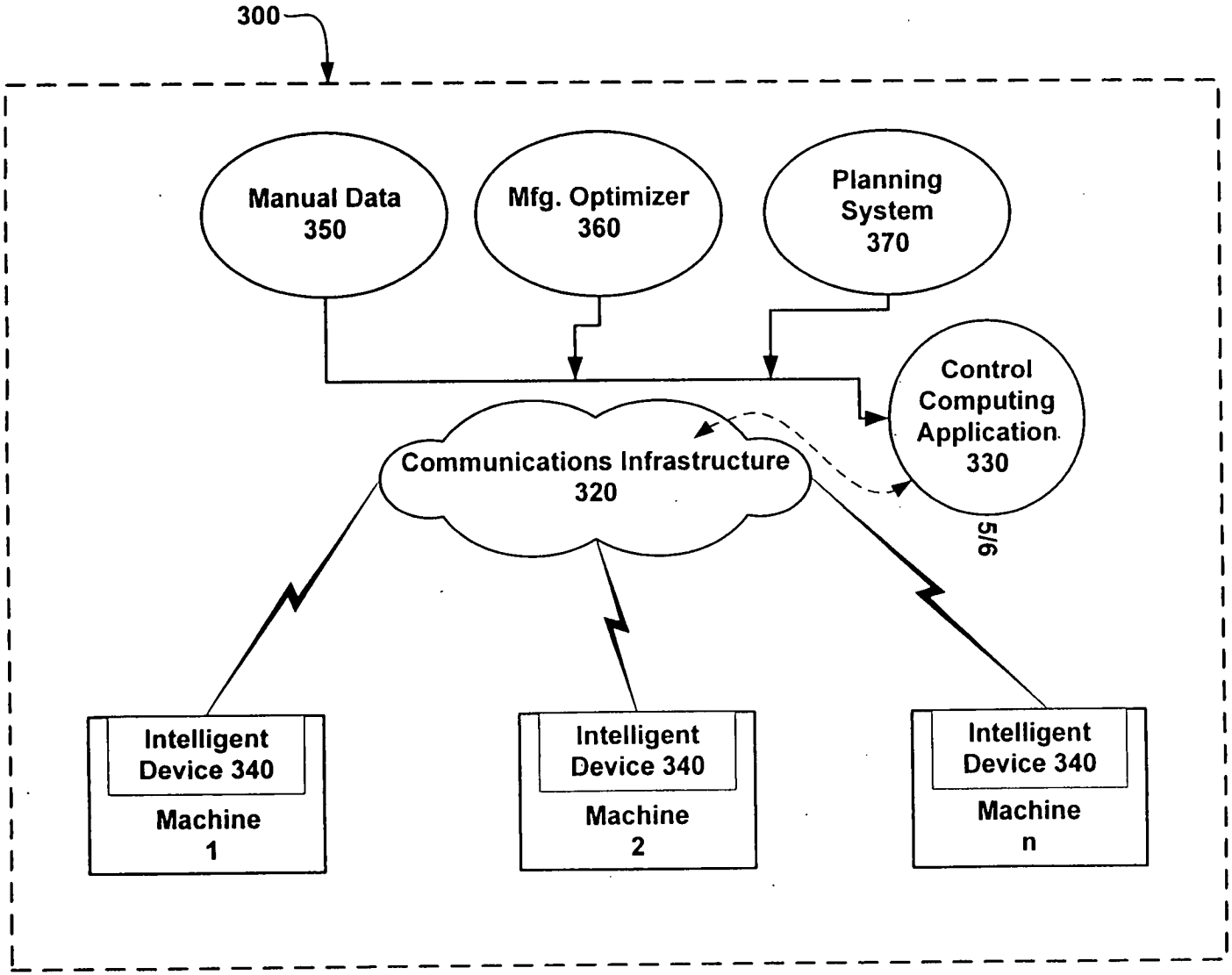
300
Manual Data
350
Mfg. Optimizer
360
Planning
System
370
Control
Computing
Application
330
Communications Infrastructure
320
Intelligent
Device 340
Machine
1
Intelligent
Device 340
Machine
2
Intelligent
Device 340
Machine
n

Figure 3

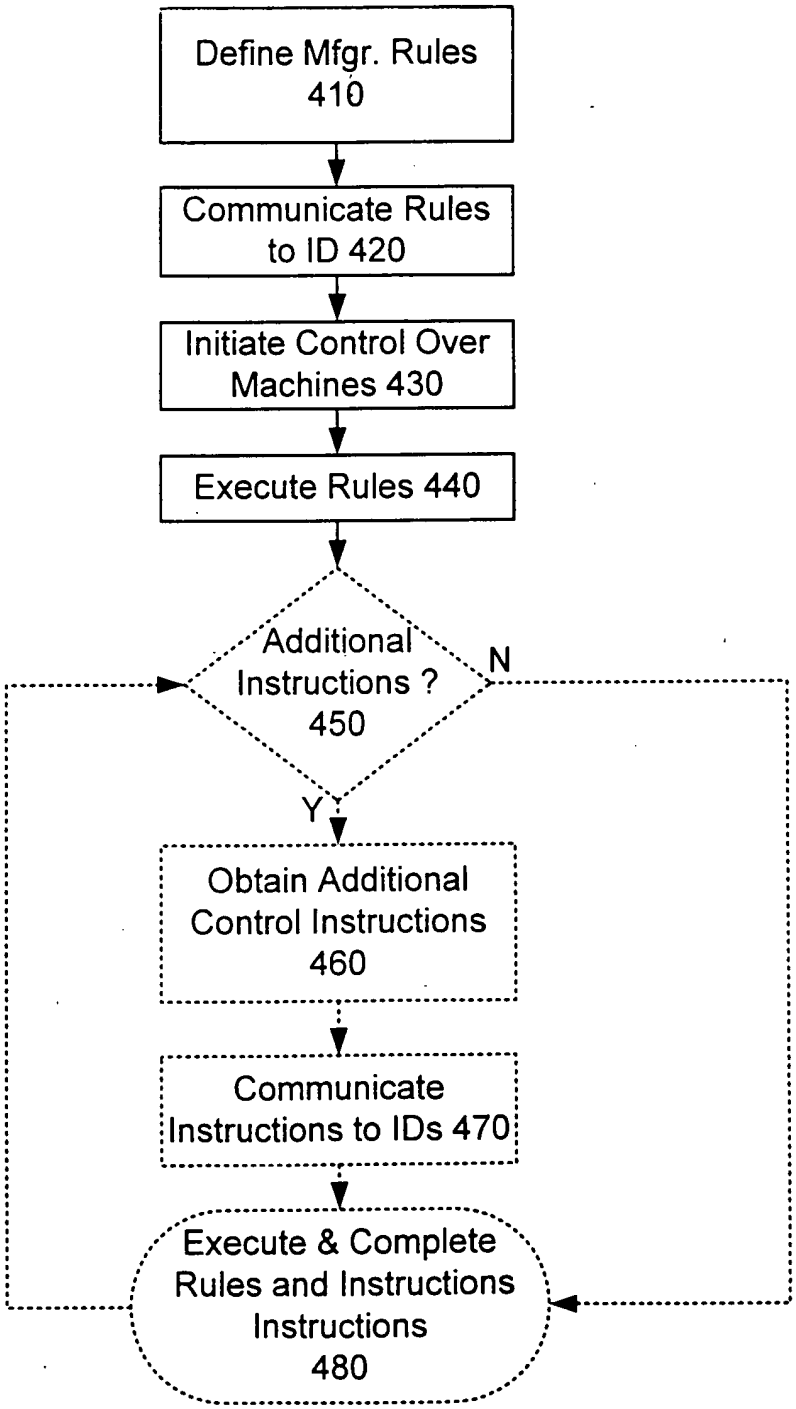
Define Mfgr. Rules 410
Communicate Rules to ID 420
Initiate Control Over Machines 430
Execute Rules 440
Additional Instructions ? 450
N
Y
Obtain Additional Control Instructions 460
Communicate Instructions to IDs 470
Execute & Complete Rules and Instructions Instructions 480

Figure 4